Claim Amendments

Please amend claims 1, 2, 4, 21, 22, 24-27, and 32 as follows:

Please cancel claims 6, 20, and 23 as follows:

Listing of Claims

- 1. (currently amended) A method of controlling the spatial distribution of RF power used to generate a plasma for processing a semiconductor device process wafer to achieve a uniform density of said plasma over an entire face of said process wafer, comprising the steps of:
- (a) producing RF power from a single RF generator comprising a dual frequency system;
- (b) delivering the RF power to each of a plurality of separate electrode zones according to a matching network, said RF power individually deliverable in parallel to separate electrode zones at a selected RF power level according to a plurality of variable capacitors, each of said variable capacitors associated with one of said electrode zones, said separate electrode zones comprising an electrostatic chuck; and
- (c) separately controlling the RF power delivered to each of the electrode zones so as to produce a desired spatial distribution of RF power in response to determining a density of said plasma across said process wafer face, said desired spatial

distribution of RF power selected to achieve a uniform density of said plasma across said entire surface of said process wafer.

- 2. (currently amended) The method of claim 1, wherein step (c) is performed by tuning each of a plurality of electrical circuits comprising said plurality of variable capacitors respectively associated with the zones.
- 3. (original) The method of claim 2, wherein step (b) includes capacitively coupling the power generated in step (a) to each of the zones.
- 4. (currently amended) The method of claim 3, wherein step (c) includes tuning each of the <u>variable</u> capacitors used to couple the <u>RF</u> power to <u>each of the said associated electrode</u> zones.
- 5. (canceled)
- 6. (canceled)
- 7. (previously presented) The method of claim 1, wherein determining said plasma density comprises sensing the spatial distribution of RF power in a chamber used to process the

semiconductor device.

- 8. (canceled)
- 9. (previously presented) The method of claim 1, wherein said separate electrode zones comprises a plurality of concentric ring electrodes insulated from one another.

Claims 10-19 (canceled)

- 20. (canceled)
- 21. (currently amended) The method of claim 1 [[3]], wherein said step of capacitively coupling the electrode portions with the RF generator is carried out by plurality of variable capacitors comprises a capacitor network.
- 22. (currently amended) The method of claim 1 wherein said matching network electrically matches the RF generator power with the a capacitor network comprising said plurality of variable capacitors.
- 23. (canceled)

- 24. (currently amended) The method of claim <u>22</u> [[23]] further comprising the step of tuning each of the <u>variable</u> capacitors by a controller in the connecting circuit.
- 25. (currently amended) The method of claim 22 [[23]] further comprising the step of providing said electrode zones in concentric ring electrodes.
- 26. (currently amended) The method of claim 25 further comprising the step of coupling the respective variable capacitors with the ring electrodes to capacitively couple <u>said</u> RF power from the generator to the ring electrodes.
- 27. (currently amended) The method of claim 25 further comprising the step of tuning the variable capacitors and controlling the amount of RF power coupled to each of the ring electrodes.
- 28. (previously presented) The method of claim 1 wherein step (c) comprises sensing information related to the spatial distribution of the plasma density and delivering the sensed information to a controller, said controller controlling said desired spatial distribution of said RF power.

29. (canceled)

- 30. (previously presented) The method of claim 1, wherein said desired spatial distribution of RF power is maintained substantially constant as a function of time during a plasma process.
- 31. (previously presented) The method of claim 1, wherein said plasma density is maintained substantially uniform over said process wafer face as a function of time during a plasma process.
- 32. (currently amended) A method of controlling the spatial distribution of RF power used to generate a plasma for processing a semiconductor device process wafer to achieve a uniform density of said plasma over an entire face of said process wafer, comprising the steps of:

producing RF power RF power from a single RF power generator comprising a dual frequency system;

delivering the RF power to each of a plurality of separate electrode zones according to a matching network, said RF power

individually deliverable to separate electrode zones at a selected RF power level according to a capacitor network comprising a plurality of variable capacitors arranged in parallel, each of said separate electrode zones associated with one of said variable capacitors, said separate electrode zones comprising an electrostatic chuck; and

separately controlling the RF power delivered to each of the electrode zones so as to produce a desired spatial distribution of RF power in response to determining a density of said plasma across said process wafer face, said desired spatial distribution of RF power selected to achieve a uniform density of said plasma across said entire face of said process wafer as a function of time during a plasma process.